

Sum-to-Product Identity

Write each sum or difference as a product.

1) $\cos 9x + \cos (-5x)$

2) $-5\left(\sin \frac{19\pi}{45} + \sin \frac{13\pi}{90}\right)$

3) $\sin 35^\circ - \sin 4$

$\sin 32x$

5) $\sin 76x + \sin$

$\cos 14^\circ$

PREVIEW

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Write each sum or difference as a product.

1) $\cos 9x + \cos (-5x)$

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$2 \cos 2x$

$\frac{17\pi}{60} \cos \frac{5\pi}{36}$

PREVIEW

3) $\sin 35^\circ - \sin 4^\circ$

$\sin 32x$

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$-2 \cos 4^\circ$

$19x \sin 13x$

5) $\sin 76x + \sin 14^\circ$

$\cos 14^\circ$

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$2 \sin \frac{87x}{2} \cos \frac{65x}{2}$

$4 \cos 11^\circ \cos 3^\circ$